Prof. Dr. habil. Andreas Erb

Publication list as of Nov. 2023:

246) 17O enrichment of CaWO4 crystals for spin-dependent DM search
Angelina Kinast, Andreas Erb, Stefan Schönert, Raimund Strauss, Jürgen Haase
arXiv:2311.0316, submitted to Proceedings of Science

245) Light Dark Matter Search Using a Diamond Cryogenic Detector
CRESST Collaboration, G. Angloher, S. Banik, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, S. Fichtinger, D. Fuchs, A. Garai, V. M. Ghete, P. Gorla, P. V. Guillaumon, S. Gupta, D. Hauff, M. Ješkovský, J. Jochum , M. Kaznacheeva, A. Kinast, H. Kluck, H. Kraus, S. Kuckuk, A. Langenkämper, M. Mancuso, L. Marini, B. Mauri, L. Meyer, V. Mokina, M. Olmi, T. Ortmann, C. Pagliarone, L. Pattavina, F. Petricca1, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers, V. Zema
arXiv:2310.05815

244) Single-crystalline YIG nanoflakes with uniaxial in-plane anisotropy and diverse crystallographic orientations
Roman Hartmann, Seema, Ivan Soldatov, Michael Lammel, Daphné Lignon, Xianyue Ai, Gillian Kiliani, Rudolf Schäfer, Andreas Erb, Rudolf Gross, Johannes Boneberg, Martina Müller, Sebastian T. B. Goennenwein, Elke Scheer, Angelo Di Bernardo
arXiv:2309.12477

243) High-Dimensional Bayesian Likelihood Normalisation for CRESST's Background Model
G. Angloher, S. Banik, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, S. Fichtinger, D. Fuchs, A. Garai, V. M. Ghete, P. Gorla, P. V. Guillaumon, S. Gupta, D. Hauff, M. Jeskovsky, J. Jochum, M. Kaznacheeva , A. Kinast, H. Kluck, H. Kraus, S. Kuckuk, A. Langenkämper, M. Mancuso, L. Marini,11, B. Mauri, L. Meyer, V. Mokina, M. Olmi, T. Ortmann, C. Pagliarone, L. Pattavina, F. Petricca1, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers,V. Zema
arXiv:2307.12991

242) Observation of a low energy nuclear recoil peak in the neutron calibration data of the CRESST-III Experiment

G. Angloher, S. Banik, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, S. Fichtinger, D. Fuchs, A. Garai, V. M. Ghete, P. Gorla, P. V. Guillaumon, S. Gupta, D. Hauff, M. Jeskovsky, J. Jochum, M. Kaznacheeva , A. Kinast, H. Kluck, H. Kraus, S. Kuckuk, A. Langenkämper, M. Mancuso, L. Marini,11, B. Mauri, L. Meyer, V. Mokina, M. Olmi, T. Ortmann, C. Pagliarone, L. Pattavina, F. Petricca1, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers,V. Zema

arXiv:2303.15315, Phys. Rev. D 108, 022005 (2023)

241) Results on sub-GeV Dark Matter from a 10 eV Threshold CRESST-III Silicon Detector

CRESST Collaboration, G. Angloher, S. Banik, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, S. Fichtinger, D. Fuchs, A. Fuss, A. Garai, V. M. Ghete, S. Gerster, P. Gorla, P. V. Guillaumon, S. Gupta , D. Hauff, M. Ješkovský, J. Jochum, M. Kaznacheeva, A. Kinast, H. Kluck, H. Kraus, A. Langenkämper, M. Mancuso, L. Marini, L. Meyer, V. Mokina, A. Nilima, M. Olmi, T. Ortmann, C. Pagliarone, L. Pattavina, F. Petricca, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, D. Schmiedmayer, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers, and V. Zemaet

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240) Secular Equilibrium Assessment in a CaWO4 Target Crystal from the Dark Matter Experiment CRESST using Bayesian Likelihood Normalisation

G. Angloher, S. Banik, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, S. Fichtinger, D. Fuchs, A. Fuss, A. Garai, V. M. Ghete, P. Gorla, S. Gupta, D. Hauff, M. Ješkovský, J. Jochum , M. Kaznacheeva, A. Kinast, H. Kluck, H. Kraush, A. Langenkämper, M. Mancusoa, L. Marinid,, V. Mokinab, A. Nilimaa, M. Olmid, T. Ortmann,C. Pagliaroned, L. Pattavinad, F. Petricca, W. Potzel, P. Povinec, F. Pröbsta, F. Pucci, F. Reindl, J. Rothe, K. Schäffner, J. Schieckb, D. Schmiedmayer, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers, V. Zema,

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239) Probing superconducting order in overdoped CaxY1−xBa2Cu3O7 by neutron diffraction measurements of the vortex lattice

A. S. Cameron, E. Campillo, A. Alshemi, M. Bartkowiak, L. Shen, H. Kawano-Furukawa, A. T. Holmes, O. Prokhnenko, A. Gazizulina, J. S. White, R. Cubitt, N. -J. Steinke, C. D. Dewhurst, A. Erb, E. M. Forgan, E. Blackburn

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238) Towards an automated data cleaning with deep learning in CRESST
G. Angloher, S. Banik, D. Bartolot, G. Benato, A. Bento, A. Bertolini, R. Breier, C. Bucci, J. Burkhart, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, S. Fichtinger, D. Fuchs, A. Fuss, A. Garai, V. M. Ghete, S. Gerster, P. Gorla, P. V. Guillaumon, S. Gupta, D. Hauff, M. Ješkovský, J. Jochum, M. Kaznacheeva, A. Kinast, H. Kluck, H. Kraus, M. Lackner, A. Langenkämper, M. Mancuso, L. Marini, L. Meyer, V. Mokina, A. Nilima, M. Olmi, T. Ortmann, C. Pagliarone, L. Pattavina, F. Petricca, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl, D. Rizvanovic, J. Rothe, K. Schäffner, J. Schieck, D. Schmiedmayer, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers, V. Zema, W. Waltenberger & CRESST
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Michael Jurkutat, Carsten Kattinger, Stefan Tsankov, Richard Reznicek, Andreas Erb, Jürgen Haase
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K. M. Seemann, O. Gomonay, Y. Mokrousov, A. Hörner, S. Valencia, P. Klamser, F. Kronast, A. Erb, A. T. Hindmarch, A. Wixforth, C. H. Marrows, P. Fischer
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235) Probing spin-dependent dark matter interactions with 6Li
G. Angloher, G. Benato, A. Bento, E. Bertoldo, A. Bertolini, R. Breier, C. Bucci, L. Canonica, A. D'Addabbo, S. Di Lorenzo, L. Einfalt, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, S. Fichtinger, D. Fuchs, A. Fuss, A. Garai, V. M. Ghete, P. Gorla, S. Gupta, D. Hauff, M. Ješkovský, J. Jochum, M. Kaznacheeva, A. Kinast, H. Kluck, H. Kraus, A. Langenkämper, M. Mancuso, L. Marini, V. Mokina, A. Nilima, M. Olmi, T. Ortmann, C. Pagliarone, V. Palušová, L. Pattavina, F. Petricca, W. Potzel, P. Povinec, F. Pröbst, F. Pucci, F. Reindl , J. Rothe, K. Schäffner, J. Schieck, D. Schmiedmayer, S. Schönert, C. Schwertner, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, I. Usherov, F. Wagner, M. Willers, V. Zema
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234) Deviations from the extended London model at high magnetic fields in YBa2Cu3O7
E. Campillo, M. Bartkowiak, R. Riyat, E. Jellyman, A. S. Cameron, A. T. Holmes, O. Prokhnenko, W.-D. Stein, A. Erb, E. M. Forgan, and E. Blackburn
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233) Twenty-three millisecond electron spin coherence of erbium ions in a natural-abundance crystal
Marianne Le Dantec, Miloš Rančić, Sen Lin, Eric Billaud, Vishal Ranjan, Daniel Flanigan, Sylvain Bertaina, Thierry Chanelière, Philippe Goldner, Andreas Erb, Ren Bao Liu, Daniel Estève, Denis Vion, Emmanuel Flurin, Patrice Bertet
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232) Lithium-Containing Crystals for Light Dark Matter Search Experiments
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230) Superconductor-Insulator Transition in space charge doped one unit cell Bi2.1Sr1.9CaCu2O8+x
Fang Wang, Johan Biscaras, Andreas Erb and Abhay Shukla
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Jakob Nachtigal, Marija Avramovska, Andreas Erb, Danica Pavićević, Robin Guehne, Jürgen Haase
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228) Cryogenic characterization of a LiAlO2 crystal and new results on spin-dependent dark matter interactions with ordinary matter
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227) Crossover to strange metal phase: quantum criticality in one unit cell Bi2Sr2CaCu2O8+x
Edoardo Sterpetti, Johan Biscaras, Andreas Erb and Abhay Shukla
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226) Tc and Other Cuprate Properties in Relation to Planar Charges as Measured by NMR
Michael Jurkutat , Andreas Erb and Jürgen Haase
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225) Experimental evidence for Zeeman spin–orbit coupling in layered antiferromagnetic conductors
R. Ramazashvili, P. D. Grigoriev, T. Helm, F. Kollmannsberger, M. Kunz, W. Biberacher, E. Kampert, H. Fujiwara, A. Erb, J. Wosnitza, R. Gross, M. V. Kartsovnik
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224) Description of CRESST-III Data
CRESST Collaboration, A. H. Abdelhameed, G. Angloher, P. Bauer, A. Bento, E. Bertoldo, C. Bucci, L. Canonica, A. D'Addabbo, X. Defay, S. Di Lorenzo, A. Erb, F. v. Feilitzsch, S. Fichtinger, N. Ferreiro Iachellini, A. Fuss, P. Gorla, D. Hauff, J. Jochum, A. Kinast, H. Kluck, H. Kraus, A. Langenkämper, M. Mancuso, V. Mokina, et al.
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223) Acceptance region efficiency files now starting at 30eV and with increased granularity First results from the CRESST-III low-mass dark matter program
CRESST Collaboration, A. H. Abdelhameed, G. Angloher, P. Bauer, A. Bento, E. Bertoldo, C. Bucci, L. Canonica, A. D'Addabbo, X. Defay, S. Di Lorenzo, A. Erb, F. v. Feilitzsch, S. Fichtinger, N. Ferreiro Iachellini, A. Fuss, P. Gorla, D. Hauff, J. Jochum, A. Kinast, H. Kluck, H. Kraus, A. Langenkämper, M. Mancuso, V. Mokina , et al.
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221) Emergence of pseudogap from short-range spin-correlations in electron doped cuprates
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219) Exchange-enhanced Ultrastrong Magnon-Magnon Coupling in a Compensated Ferrimagnet
Lukas Liensberger, Akashdeep Kamra, Hannes Maier-Flaig, Stephan Geprägs, Andreas Erb, Sebastian T. B. Goennenwein, Rudolf Gross, Wolfgang Belzig, Hans Huebl, Mathias Weiler
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218) A prototype detector for the CRESST-III low-mass dark matter search
R. Strauss, G. Angloher, P. Bauer, X. Defay, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, R. Hampf, D. Hauff, M. Kiefer, J. -C. Lanfranchi, A. Langenkämper, E. Mondragon, A. Münster, C. Oppenheimer, F. Petricca, W. Potzel, F. Pröbst, F. Reindl, J. Rothe, S. Schönert, W. Seidel, H. Steiger, L. Stodolsky, A. Tanzke , et al.
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217) Comprehensive phase diagram of two-dimensional space charge doped Bi2Sr2CaCu2O8+x
Edoardo Sterpetti, Johan Biscaras, Andreas Erb & Abhay Shukla
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216) Magnetotransport evidence of irreversible spin reorientation in the collinear antiferromagnetic state of underdoped Nd2−xCexCuO4
Alma Dorantes, Ahmed Alshemi, Zengle Huang, Andreas Erb, Mark Kartsovnik
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215) First results on low-mass dark matter from the CRESST-III experiment
CRESST collaboration: F. Petricca, G. Angloher, P. Bauer, A. Bento, C. Bucci, L. Canonica, X. Defay, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, P. Gorla, A. Gütlein, D. Hauff, J. Jochum, M. Kiefer, H. Kluck, H. Kraus, J. C. Lanfranchi, A. Lagenkämper, J. Loebell, M. Mancuso, E. Mondragon, A. Münster, C. Pagliarone, W. Potzel, F. Pröbst, R. Puig, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, S. Schönert, W. Seidel, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, A. Tanzke, H. H. Trinh Thi, C. Türkoğlu, A. Ulrich, I. Usherov, S. Wawoczny, M. Willers, M. Wüstrich
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213) Search for low-mass Dark Matter with the CRESST Experiment
H. Kluck, G. Angloher, P. Bauer, A. Bento, C. Bucci, L. Canonica, X. Defay, A. Erb, F. v. Feilitzsch, N. Ferreiro Iachellini, P. Gorla, A. Gütlein, D. Hauff, J. Jochum, M. Kiefer, H. Kraus, J.-C. Lanfranchi, A. Langenkämper, J. Loebell, M. Mancuso, E. Mondragon, A. Münster, C. Pagliarone, F. Petricca, W. Potzel, F. Pröbst, R. Puig, F. Reindl, J. Rothe, K. Schäffner, J. Schieck, S. Schönert, W. Seidel, M. Stahlberg, L. Stodolsky, C. Strandhagen, R. Strauss, A. Tanzke, H.H. Trinh Thi, C. Türkoğlu, A. Ulrich, I. Usherov, S. Wawoczny, M. Willers, M. Wüstrich (the CRESST Collaboration)
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212) Proof of bulk charge ordering in the CuO2 plane of the cuprate superconductor YBa2Cu3O6.9 by high pressure NMR
Steven Reichardt, Michael Jurkutat, Robin Gühne, Jonas Kohlrautz, Andreas Erb, Jürgen Haase
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210) Performance of a CRESST-II Detector Module with True 4π-veto

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209) Results on MeV-scale dark matter from a gram-scale cryogenic calorimeter operated above ground

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208) Magnetic excitations and amplitude fluctuations in insulating cuprates

Nitin Chelwani, Andreas Baum, Thomas Böhm, Matthias Opel, Francesca Venturini, Leonardo Tassini, Andreas Erb, Helmuth Berger, László Forró, Rudi Hackl
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207) Observation of Caroli-de Gennes-Matricon vortex states in $YBa_2Cu_3O_{7-\delta}$

Christophe Berthod, Ivan Maggio-Aprile, Jens Bruér, Andreas Erb, Christoph Renner
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205) Impact of the interface quality of Pt/YIG(111) hybrids on their spin Hall magnetoresistance

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204) Dark-Photon Search using Data from CRESST-II Phase 2
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